Objectives: Practice declaring arrays, populating the arrays.

Extra Features: refer to the java file

Problem: An elementary school teacher and has asked you to create a program so that the student can take Math quizzes. Each student should answer some math questions. The program keeps track of the score of each student and displays the score at the end of the quiz. The questions will be displayed one at a time and the student will be given the chance to answer the question. If the student is correct the points will be added to the score else a message will be displayed indicating the incorrect answer. Here is a sample output:

# Required methods

All the methods must be implemented based on the given pseudocode.

**public static void main():**calls the method makeExam

**public static void makeExam():** The pseudocode and code is given

**public static int total(int[] scores): The pseudocode is given**

**public static String yesNo(Scanner kb): The pseudocode is given**

**public static char getOp(Random rand): The pseudocode is given**

**public static int getNum(): The pseudocode is given**

**public static void populate (String[] quiz, int[] answer, int[] points):** this method should populate the three arrays with questions, correct answers and the points for each question. Following is an example of how the three arrays should be initialized.

if the size of the array is 5 for example, then their content should be similar to the following

Index: 0 1 2 3 4

Quiz: [**15** \* 10, 11 - 13, 12 + 16, 9 + 16, 15 \* 19]

answer: [**150**, -2, 28, 25, 285]

Points: [**4**, 6, 4, 8, 2]

The question at index zero is: 15 \* 10, the answer at index zero is 150 and the points for the questions is 4

Since the array of quiz is being populated randomly so the three arrays will be populated differently each time

Second run of the populate method, might initializes the arrays to the following:

quiz: [10 + 15, 15 - 17, 17 - 10, 13 \* 8, 15 / 9]

answer: [25, -2, 7, 104, 1]

points: [9, 9, 7, 5, 6]

Here is the third run of my method populate:

quiz: [10 - 9, 11 - 8, 14 + 14, 8 - 13, 12 \* 10]

answer: [1, 3, 28, -5, 120]

points: [2, 4, 1, 6, 8]

**public static int evaluate (int num1, int num2, String op):**

**public static int[] takeExam(int[] answers, int[] values, String questions): The pseudocode is given**

**public static void info() :**